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TITLE: STEEL WIRE WITH EXCELLENT CORROSION RESISTANCE

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INVENTOR-INFORMATION:

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INT-CL (IPC): C22C 38/00; C22C 38/16; C22C 38/50; G02B 6/44	

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a steel wire having excellent corrosion resistance as well as mechanical properties.

SOLUTION: The steel wire has a composition containing 0.3 to 0.85% C, 0.001 to 1.5% (not including 0%) Si, 0.2 to 1.2% Mn, 0.08 to 0.5% Cu, 0.002 to 0.1% Al and 0.002 to 0.01% N and also has  $\geq 700$  N/mm<sup>2</sup> as tensile strength. The steel wire is useful not only as a material for a deformed wire and a reinforcing wire (reinforcing piano wire) for an optical fiber submarine cable but also as a material for a wire rope etc. for use in fishery, ships, etc., utilizing its superior mechanical properties.

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